Clariant PC PC-1700G10FR

Polycarbonate

Clariant Corporation

Message:

Clariant PC PC-1700G10FR is a Polycarbonate (PC) material filled with 10% glass fiber. It is available in North America for injection molding.
Important attributes of Clariant PC PC-1700G10FR are:
Flame Rated
Flame Retardant
Chemical Resistant
Good Dimensional Stability
Good Processability
Typical applications include:
Business/Office Goods
Electrical/Electronic Applications
Industrial Applications
Medical/Healthcare
Military Applications

General Information	
Filler / Reinforcement	Glass Fiber,10% Filler by Weight
Additive	Flame Retardant
Features	Electrically Insulating Flame Retardant Good Chemical Resistance Good Colorability Good Dimensional Stability Good Processability Good Toughness High Rigidity
Uses	Business Equipment Electrical Parts Industrial Castings Medical/Healthcare Applications Metal Replacement Military Applications Sporting Goods
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption			ASTM D570

24 hr	0.11	%	
Saturation	0.30	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	91		
R-Scale	119		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	107	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (6.35 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	1600	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	146	°C	
1.8 MPa, Unannealed	143	°C	
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	6.0E+16	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 343	°C	
Middle Temperature	304 to 343	°C	
Front Temperature	304 to 343	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 121	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	45 to 75	rpm	

Recommended distributors for this material

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